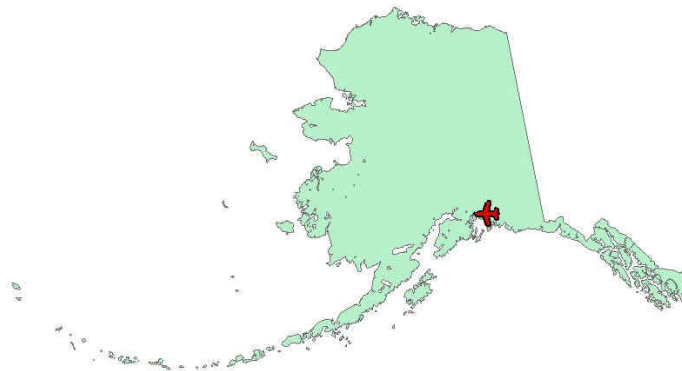




VALDEZ AIRPORT



2004 Alaska Airport Pavement Condition Report

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Maps and report compiled by
 H. June Finkbiner
 Central Region Materials, Alaska DOT&PF

VALDEZ AIRPORT - 2004

Contents:

- A Pavement Strength Form showing project history, latest Pavement Condition Index (PCI) data, pavement strength ratings (if available) and other useful information
- A Pavement Condition Survey – PCI Sample Unit Layout Plan
- PCI maps showing as-measured and predicted pavement conditions
- Age map showing pavement age as of January 2003
- A Branch PCI Condition Report
- A Section PCI Condition Report

Airport Information:

- Location:
Valdez Airport is located approximately 6 miles northwest of the City of Valdez on the north end of Prince William Sound in South Central Alaska. Valdez has the terminus of the Trans-Alaska Pipeline where oil tanker ships are loaded. This is a commercial airport with fences and controlled access.
- District: South Central, Northern
- Airport Manager: Steve Searles
- District Maintenance Manager: Joe Junker - Acting
- Pavement Surface:
There is almost 2.5 million square feet of actively used asphalt concrete and BST pavement at the Valdez Airport.
- Last Pavement Construction: 1982
- Pavement layout:
The runway (6-24) is 6,500' long and 150' wide with paved shoulders. The Terminal Apron is the main apron, serving passenger and cargo terminals. The BST Apron is has bituminous surface treatment on it. The rest of the paved areas are surfaced with hot mix asphalt concrete. The surfacing is of mid seventies to early eighties vintage.
- Design Aircraft: B-727
- 2003 Enplanements: 16,599 – down 12% from 2002
- Airport Class: Primary
- Last pavement condition survey: 2004
conducted by Angela Parsons, Roy Stover, and June Finkbiner of Central Region Materials
- Next planned pavement condition survey: 2007
- 2004 reported pavement maintenance and/or changed conditions: No pavement maintenance done. A major reconstruction project for the entire airport is underway and will probably be completed in 2005.
- **Recommendations:** In general, seal cracks that are greater than ¼" wide and patch as required to maintain serviceability. Hopefully this will not be necessary until 2006 at the earliest.

Date: 9 /27/2004

Branch Condition Report

1 of 2

Pavement Database: NetworkID: Valdez

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	PCI Standard Deviation	Weighted Average PCI
100 (Taxiway A)	1	1788.00	75.00	142597.00	TAXIWAY	43.00	0.00	43.00
200 (Taxiway B)	3	945.00	134.33	73404.00	TAXIWAY	62.67	1.89	63.70
300 (Taxiway C)	1	585.00	90.00	57479.00	TAXIWAY	56.00	0.00	56.00
400 (Taxiway D)	1	525.00	90.00	49665.00	TAXIWAY	46.00	0.00	46.00
4100 (Terminal Apron)	1	1000.00	212.50	214915.01	APRON	47.00	0.00	47.00
4200 (East Apron)	1	300.00	212.50	63750.00	APRON	38.00	0.00	38.00
4300 (West Apron)	1	2100.00	212.50	445043.01	APRON	36.00	0.00	36.00
500 (Parallel Taxiway)	1	5028.00	90.00	448770.01	TAXIWAY	51.00	0.00	51.00
6100 (RUNWAY 6-24)	9	19551.00	50.00	977550.02	RUNWAY	33.67	5.37	34.28

Date: 9 /27/2004

Branch Condition Report

2 of 2

Pavement Database:

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	3	723708.02	40.33	4.78	39.44
RUNWAY	9	977550.02	33.67	5.37	34.28
TAXIWAY	7	771915.02	54.86	7.83	50.78
All	19	2473173.06	42.53	11.57	40.94

<div> <div>Date: 9 /27/2004</div> <div> <div>Section Condition Report</div> <div> Pavement Database: NetworkID: Valdez </div> </div> <div>1 of 2</div> </div>										
Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
100 (Taxiway A)	100-01	08/01/1981	AC	TAXIWAY	P	0	142597.00	07/21/2004	23	43.00
200 (Taxiway B)	200-01	08/01/1981	AC	TAXIWAY	S	0	60300.00	07/22/2004	23	64.00
200 (Taxiway B)	200-02	09/01/1982	AC	TAXIWAY	S	0	5504.00	07/22/2004	22	60.00
200 (Taxiway B)	200-03	09/01/1982	AC	TAXIWAY	S	0	7600.00	07/22/2004	22	64.00
300 (Taxiway C)	300-01	08/01/1981	AC	TAXIWAY	P	0	57479.00	07/21/2004	23	56.00
400 (Taxiway D)	400-01	09/01/1981	AC	TAXIWAY	P		49665.00	07/22/2004	23	46.00
4100 (Terminal Apron)	4100-01	08/01/1981	AC	APRON	P	0	214915.01	07/22/2004	23	47.00
4200 (East Apron)	4200-01	08/01/1974	AC	APRON	S	0	63750.00	07/22/2004	30	38.00
4300 (West Apron)	4300-01	07/01/1974	AC	APRON	S	0	445043.01	07/22/2004	30	36.00
500 (Parallel Taxiway)	500-01	08/01/1981	AC	TAXIWAY	P	0	448770.01	07/22/2004	23	51.00
6100 (RUNWAY 6-24)	6100-01C	08/01/1982	AC	RUNWAY	P	0	202000.01	07/21/2004	22	29.00
6100 (RUNWAY 6-24)	6100-01E	08/01/1982	AC	RUNWAY	P	0	50000.00	07/22/2004	22	39.00
6100 (RUNWAY 6-24)	6100-01W	09/01/1981	AC	RUNWAY	P	0	73850.00	07/21/2004	23	29.00
6100 (RUNWAY 6-24)	6100-03C	08/01/1982	AC	RUNWAY	P	0	202000.01	07/21/2004	22	44.00
6100 (RUNWAY 6-24)	6100-03E	08/01/1982	AC	RUNWAY	P	0	50000.00	07/22/2004	22	39.00
6100 (RUNWAY 6-24)	6100-03W	09/01/1981	AC	RUNWAY	P	0	73850.00	07/21/2004	23	28.00
6100 (RUNWAY 6-24)	6100-05C	08/01/1982	AC	RUNWAY	P	0	202000.01	07/21/2004	22	34.00
6100 (RUNWAY 6-24)	6100-05E	08/01/1982	AC	RUNWAY	P	0	50000.00	07/22/2004	22	30.00
6100 (RUNWAY 6-24)	6100-05W	09/01/1981	AC	RUNWAY	P	0	73850.00	07/21/2004	23	31.00

Date: 9 /27/2004

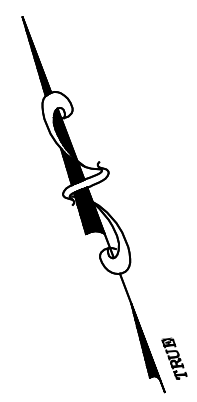
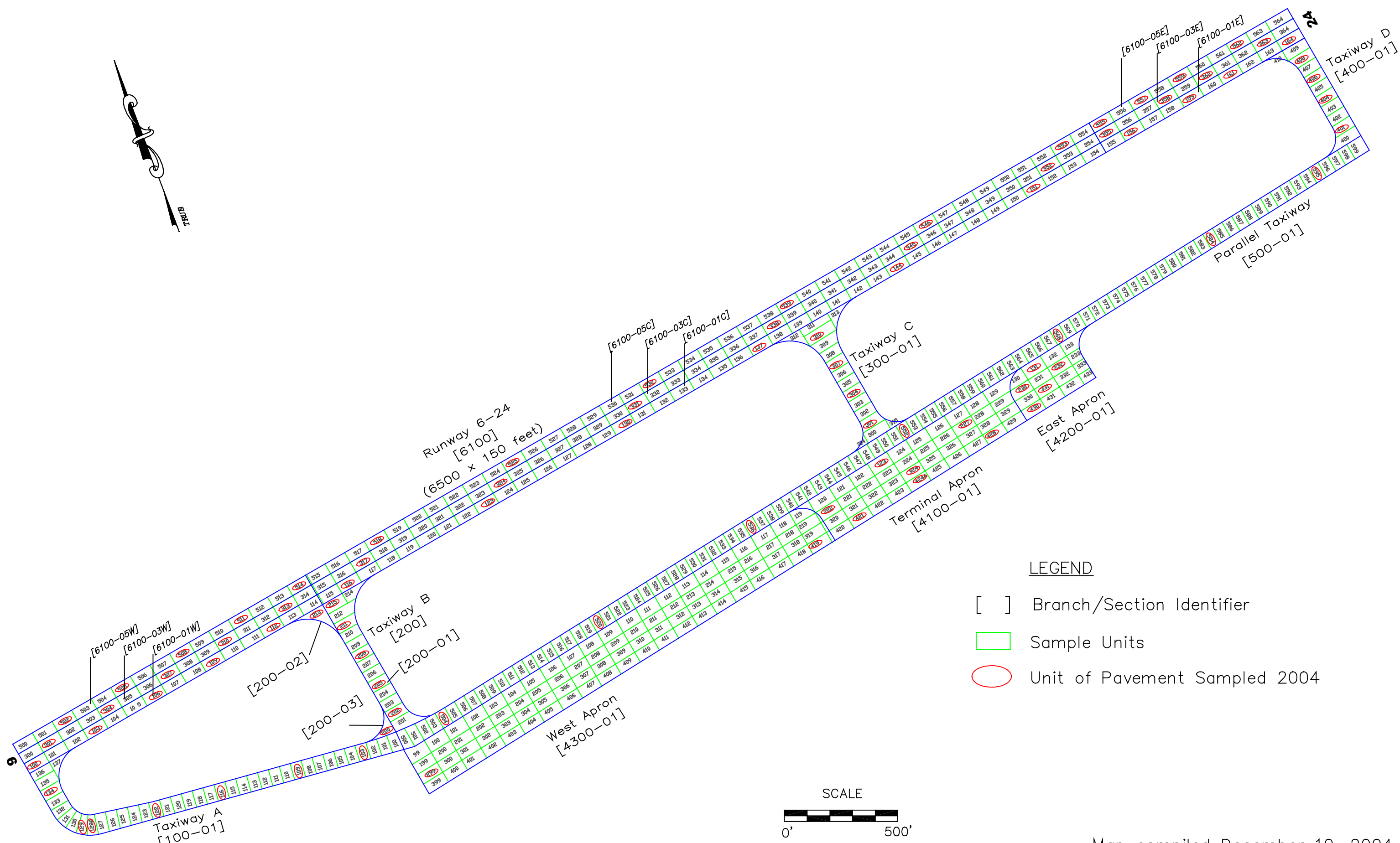
Section Condition Report

2 of 2

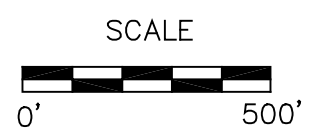
Pavement Database:

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
21-25	22.53	1964380.05	17	43.18	12.06	42.16
26-30	30.00	508793.01	2	37.00	1.00	36.25
All	23.32	2473173.06	19	42.53	11.57	40.94

		PAVEMENT STRENGTH SURVEY										
STATE Alaska		CITY	Valdez	AIRPORT	Valdez				This is a variation of FAA Form 5320-1-1			
		CONSTRUCTION DATES										
IDENT.	NAME	ORIG.	OVERLAY	CONSTRUCTION AGENCY	SOURCE OF INFORMATION	Existing Pavement Conditions (PCI) at last inspection	Soil Class	Subbase Course	Base Course	Surface Course	Overlay	Pavement Strength
						RUNWAYS						
6100-01C	Runway 6-24	1982		AK DOT&PF		29					4" AC	
6100-01E	Runway 6-24	1982		AK DOT&PF		39					4" AC	
6100-01W	Runway 6-24	1982		AK DOT&PF		29			6" CABC	4" AC	Seal Coat	No Data *
6100-03C	Runway 6-24	1982		AK DOT&PF		44					4" AC	
6100-03E	Runway 6-24	1982		AK DOT&PF		39					4" AC	
6100-03W	Runway 6-24	1982		AK DOT&PF		28			6" CABC	4" AC	Seal Coat	
6100-05C	Runway 6-24	1982		AK DOT&PF		34					4" AC	
6100-05E	Runway 6-24	1982		AK DOT&PF		30					4" AC	
6100-05W	Runway 6-24	1982		AK DOT&PF		31			6" CABC	4" AC	Seal Coat	
						TAXIWAYS						
100-01	Taxiway A	1981		AK DOT&PF		43					4" AC	
200-01	Taxiway B	1981		AK DOT&PF		64					4" AC	
200-02	Taxiway B	1981		AK DOT&PF		60					4" AC	
200-03	Taxiway B	1981		AK DOT&PF		64					4" AC	
300-01	Taxiway C	1981		AK DOT&PF		56					4" AC	
400-01	Taxiway D	1981		AK DOT&PF		46						
500-01	Parallel Taxiway	1981		AK DOT&PF		51					4" AC 4" AC	
						APRONS						
4100-01	Terminal Apron	1981		AK DOT&PF		47					AC	
4200-01	East Apron	1974		AK DOT&PF		38					4" AC	
4300-01	West Apron	1974		AK DOT&PF		36					BST	
REMARKS:												
Valdez Airport is scheduled for major reconstruction in 2005, so this is a treminal condition survey												
* This airport serves B-737 class and smaller aircraft												
Date of Site Inspection:		7/21 & 22/2004		Evaluated By:</								



- LEGEND
- [] Branch/Section Identifier
 - Sample Units
 - Unit of Pavement Sampled 2004

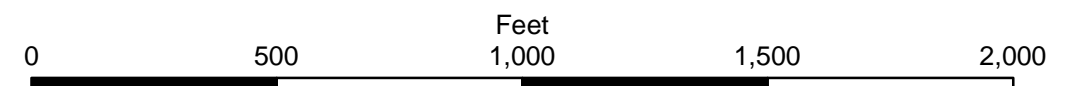
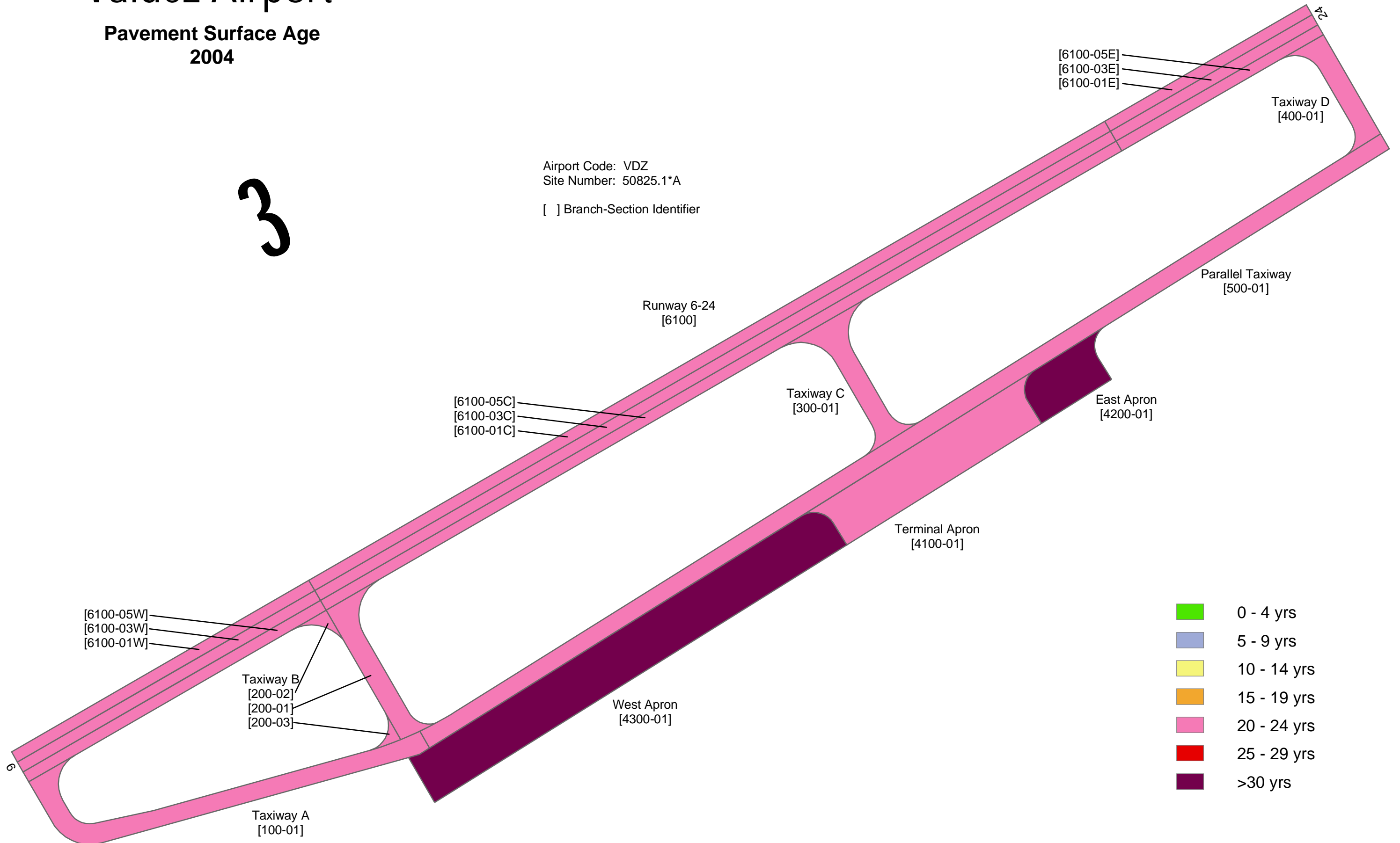


Valdez Airport

Pavement Surface Age
2004

Airport Code: VDZ
Site Number: 50825.1*A

[] Branch-Section Identifier

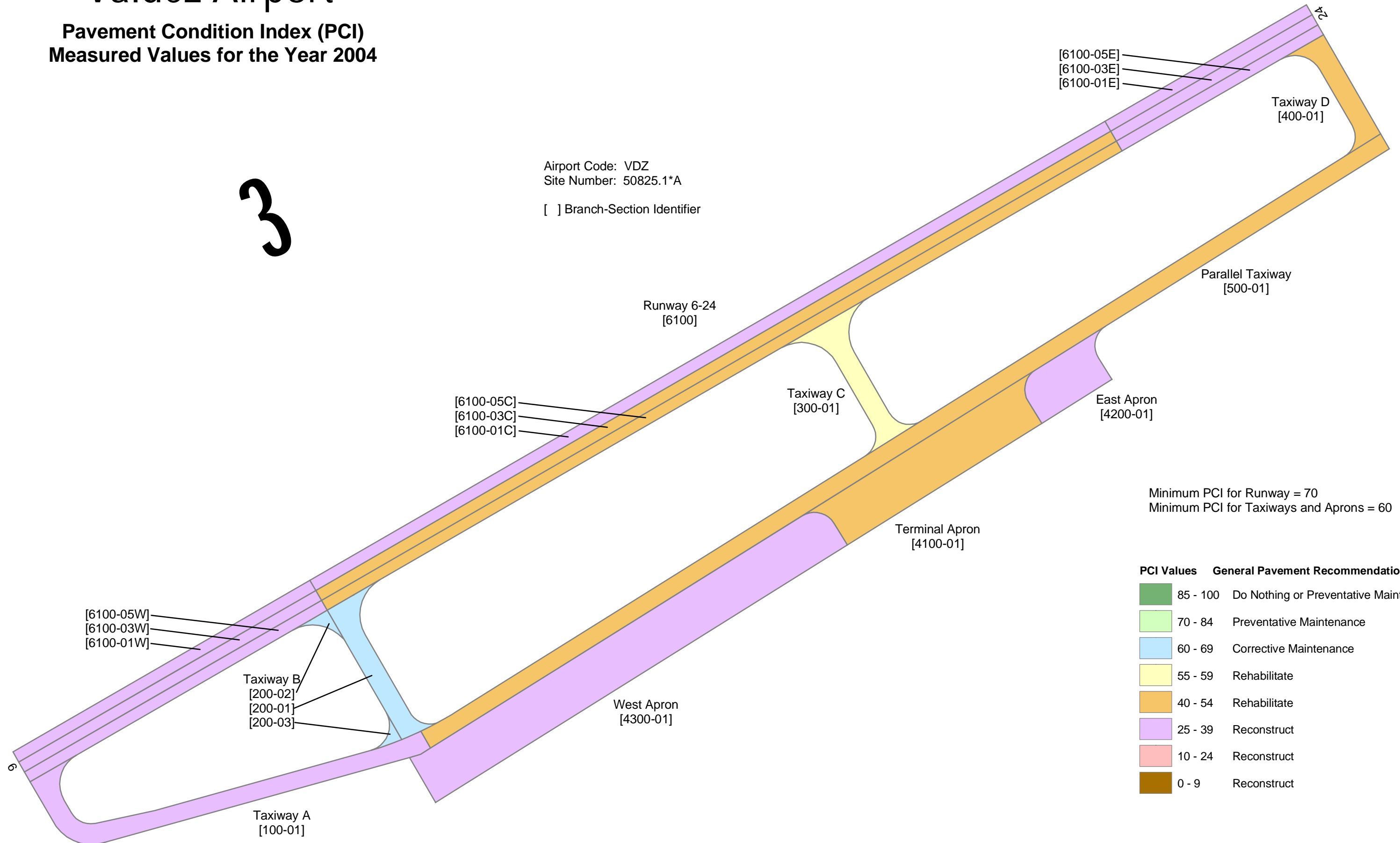


Valdez Airport









Pavement Condition Index (PCI) Measured Values for the Year 2004

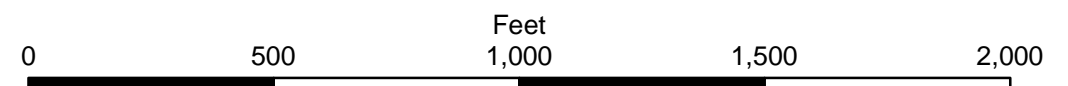
Airport Code: VDZ
Site Number: 50825.1*A

[] Branch-Section Identifier



Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

PCI Values	General Pavement Recommendations	
	85 - 100	Do Nothing or Preventative Maintenance
	70 - 84	Preventative Maintenance
	60 - 69	Corrective Maintenance
	55 - 59	Rehabilitate
	40 - 54	Rehabilitate
	25 - 39	Reconstruct
	10 - 24	Reconstruct
	0 - 9	Reconstruct



Valdez Airport

Pavement Condition Index (PCI) Predicted Values for the Year 2005

Airport Code: VDZ
Site Number: 50825.1*A

[] Branch-Section Identifier

3

Runway 6-24
[6100]

[6100-05C]
[6100-03C]
[6100-01C]

Taxiway C
[300-01]

Parallel Taxiway
[500-01]

Taxiway D
[400-01]

East Apron
[4200-01]

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

Terminal Apron
[4100-01]

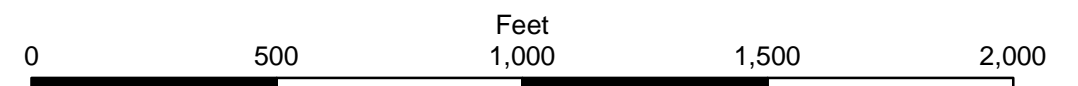
West Apron
[4300-01]

[6100-05W]
[6100-03W]
[6100-01W]

Taxiway B
[200-02]
[200-01]
[200-03]

Taxiway A
[100-01]

PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct



Valdez Airport

Pavement Condition Index (PCI) Predicted Values for the Year 2006

Airport Code: VDZ
Site Number: 50825.1*A

[] Branch-Section Identifier

3

Runway 6-24
[6100]

[6100-05C]
[6100-03C]
[6100-01C]

Taxiway C
[300-01]

Parallel Taxiway
[500-01]

Taxiway D
[400-01]

East Apron
[4200-01]

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

Terminal Apron
[4100-01]

West Apron
[4300-01]

[6100-05W]
[6100-03W]
[6100-01W]

Taxiway B
[200-02]
[200-01]
[200-03]

Taxiway A
[100-01]

PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

